

## Product datasheet for **RG208254**

### **RNF144 (RNF144A) (NM\_014746) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RNF144 (RNF144A) (NM_014746) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF144
Synonyms:	hUIP4; RNF144; UBCE7IP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208254 representing NM_014746 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCACAGCAAGGTACCGGCCACCTGGGACCTGGCCCTCGACCCGCTGGTGTCTTGCAAGCTCTGTC  
TTGGGGAGTACCCAGTGGAGCAGATGACAACCATAGCCCAGTGCCAATGCATCTTCTGTACTCTGTGCCT  
GAAACAGTATGTTGAGCTCTTGATCAAAGAAGGATTAGAAACCGCAATTAGCTGCCAGATGCTGCCTGC  
CCTAAACAGGGCCACCTACAGGAGAACGAGATTGAGTGCATGGTTGCAGCTGAAATTATGCAAAGATATA  
AAAAGCTACAATTTGAAAGAGAGGTGCTGTTTGATCCCTGTCGGACTTGGTGCCCGGCTCCACCTGCCA  
AGCTGTGTGTGAGCTCCAGGACGTGGGGCTGCAGACCCCCAGCCAGTGCAGTGCAGCAAGCCCTGCCGTATG  
GAATTCTGCTCCACCTGCAAAGCCAGCTGGCACCCCTGGCCAGGGCTGCCCGGAGACCATGCCGATCACCT  
TCCTCCCCGGGGAGACCAGTGTCTTTTCAAATGGAAGAAGATGACGCGCCCATCAAGCGCTGCCCCAA  
GTGCAAAGTCTACATCGAGCGAGACGAAGGCTGCGCGCAGATGATGTGCAAGAAGTGAAGCACGCCCTTC  
TGCTGGTACTGCCTGGAGTCTCTGGACGATGATTTCTTCTGATACTACGATAAGGGACCCTGCCGGA  
ACAAGCTGGGCCACTCCCGGCATCTGTGATCTGGCATCGGACACAGGTTGTGGGCATTTTGCAGGATT  
TGGGCTGCTGCTTTGGTGGCCACCTTTCCTACTCCTGGCCACTCCCTTTGACTTTGCTGCAAGTGC  
AAGTGCAGTAAAGGTGACGACGACCCGTTACCCACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208254 representing NM\_014746  
 Red=Cloning site Green=Tags(s)

MTTARYRPTWDLALDPLVSKLCLGEYPVEQMTTIAQCQCFCTLCLKQYVELLIKEGLETAISCPDAAC  
 PKQGHLENEIECMVAEIMQRYKKLQFEREVLFDPCRTWCPASTCQAVCQLQDVGLQTPQPVQCKACRM  
 EFCSTCKASWHPGQGCPEITMPTITFLPGETSAAFKMEEDDAPIKRCPKCKVYIERDEGCAQMMCKNCKHAF  
 CWYCLESDDDFLLIHVDKGPCKRNLGHSRASVIWHRTQVVGIFAGFGLLLLVASPFLLLATPFVLCCKK  
 KCSKGDDDDPLPT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014746

**ORF Size:** 876 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_014746.1](#)

**RefSeq Size:** 5755 bp

**RefSeq ORF:** 879 bp

**Locus ID:** 9781

**UniProt ID:** [P50876](#)

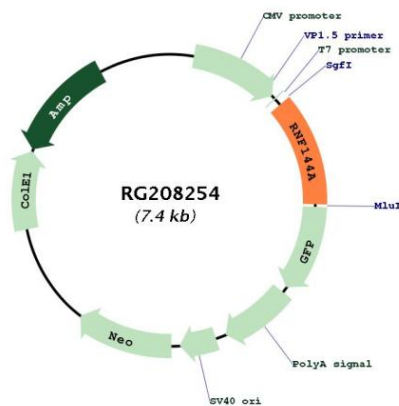
**Cytogenetics:** 2p25.1

**Domains:** IBR

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a member of a family of RING finger domain-containing E3 ubiquitin ligases that also includes parkin and parc. The expression of this gene is induced by DNA damage. The encoded protein interacts with the cytoplasmic DNA-dependent protein kinase, catalytic subunit (DNA-PKcs) and promotes its degradation through ubiquitination. The orthologous mouse protein has been shown to interact with a ubiquitin-conjugating enzyme involved in embryonic development. [provided by RefSeq, Mar 2017]

### Product images:



Circular map for RG208254